Contents

Allaway, W. G., s. Ashford, A. E.
Arce, P., s. Balboa, O.
Armstrong, K. C., s. Fan, Z.
Ashford, A. E., Carpenter, J. L., Cairney, J. W. G., Allaway, W. G., Structure and Permeability of the Fungal Sheath in the *Pisonia* Mycorrhiza 149
Avila, G., s. Balboa, O.
Balboa, O., Avila, G., Arce, P., Fine Structure of Actinorhiza of the *Rhamnaceae* Growing in Chile. I. *Talguena quinquenervia* (Gill et Hook) 143
Bowles, D. J., s. Marcus, S. E.
Cairney, J. W. G., s. Ashford, A. E.
Carpenter, J. L., s. Ashford, A. E.
Condon, J. M. s. Fineran, B. A.
Fan, Z., Armstrong, K. C., Keller, W. A., Development of Microspores *in vivo* and *in vitro* in *Brassica napus* L. 191
Fineran, B. A., Condon, J. M., Ingerfeld, M., An Impregnated Suberized Wall Layer in Laticifers of the *Convolvulaceae*, and its Resemblance to That in Walls of Oil Cells 42
Golinska, K., Temperature-induced Modifications in Size and Pattern of Microtubular Organelles in a Ciliate, *Dileptus*. II. Formation and Spatial Arrangement of the Microtubular Skeleton of the Oral Parts 125
Grebecki, A., s. Klopocka, W.
Grosskopf, D. G., Kroiher, M., Gradients in Plastid and Mitochondrial DNA Synthesis in *Funaria* Protonemata: Visualization by Bromodeoxyuridine Immunohistochemistry . 1
Höhfeld, I., Otten, J., Melkonian, M., Contractile Eukaryotic Flagella: Centrin Is Involved 16
Hu, Shi-yi, Yu, Hong-shi, Preliminary Observations on the Formation of the Male Germ Unit in Pollen Tubes of *Cyphomandra betacea* Sendt. 55
Huner, N. P. A., s. Newsted, W. J.
Ingerfeld, M., s. Fineran, B. A.
Jauch, U., s. Ryser, U.
Keller, W. A., s. Fan, Z.
Klopocka, W., Stockem, W., Grebecki, A., Fine Structure and Distribution of Contractile Layers in *Amoeba proteus* Preincubated at High Temperature 117
Koutoulis, A., McFadden, G. I., Wetherbee, R., Spine-Scale Reorientation in *Apedinella radians* (*Pedinellales, Chrysophyceae*): the Microarchitecture and Immunocytochemistry of the Associated Cytoskeleton 25
Krämer, P., Wilhelm, C., Wild, A., Mörschel, E., Rhiel, E., Ultrastructure and Freeze-Fracture Studies of the Thylakoids of *Mantoniella squamata* (*Prasinophyceae*) 170
Kroiher, M., s. Grosskopf, D. G.
McFadden, G. I., s. Koutoulis, A.
Marcus, S. E. Bowles, D. J., Deglycosylation of a Lectin Intermediate During Assembly of ConA 113
Meier, H., s. Ryser, U.
Melkonian, M., s. Höhfeld, I.
Mendgen, K., s. Welter, K.
Mörschel, E., s. Krämer, P.
Müller, M., s. Welter, K.
Nagai, R., s. Yoneda, M.
Newsted, W. J., Huner, N. P. A., Major Sclerotial Polypeptides of Psychrophilic Pathogenic Fungi: Intracellular Localization and Antigenic Relatedness 162
Noguchi, T., Numerical and Structural Changes in Dictyosomes During Zygospore Germination of *Closterium ehrenbergii* 135
Otten, J., s. Höhfeld, I.
Peterson, C. A., s. Ashford, A. E.
Polito, V. S., s. Tiwari, S. C.
Rhiel, E., s. Krämer, P.
Ryser, U., Schorderet, M., Jauch, U., Meier, H., Ultrastructure of the "Fringe-Layer", the Innermost Epidermis of Cotton Seed Coats 81
Schorderet, M., s. Ryser, U.
Selker, J. M. L., Three-Dimensional Organization of Uninfected Tissue in Soybean Root Nodules and Its Relation to Cell Specialization in the Central Region 178
Stockem, W., s. Klopocka, W.
Tiwari, S. C., Polito, V. S., Spatial and Temporal Organization of Actin During Hydration, Activation, and Germination of Pollen in *Pyrus communis* L.: a Population Study 5
— — Organization of the Cytoskeleton in Pollen Tubes of *Pyrus communis*: a Study Employing Conventional and Freeze-Substitution Electron Microscopy, Immunofluorescence, and Rhodamine-Phalloidin 100
Welter, K., Müller, M., Mendgen, K., The Hyphae of *Uromyces appendiculatus* Within the Leaf Tissue After High Pressure Freezing and Freeze Substitution 91
Wetherbee, R., s. Koutoulis, A.
Wild, A., s. Krämer, P.
Wilhelm, C., s. Krämer, P.
Yoneda, Mitsuki, Nagai, Reiko, Structural Basis of Cytoplasmic Streaming in Characean Internodal Cells. A Hydrodynamic Analysis 64
Yu, Hong-shi, s. Hu, Shi-yi

Rapid Communications

Green, P. B., s. Williams, M. H.
Gunning, B. E. S., s. McCurdy, D. W.
Marc, J., s. Mineyuki, Y.
McCurdy, D. W., Sammut, M., Gunning, B. E. S., Immunofluorescent Visualization of Arrays of Transverse Cortical Actin Microfilaments in Wheat Root-Tip Cells 204
Mineyuki, Y., Marc, J., Palevitz, B. A., Formation of the Oblique Spindle in Dividing Guard Mother Cells of *Allium* . . . 200
Palevitz, B. A., s. Mineyuki, Y.
Sammut, M., s. McCurdy, D. V.
Williams, M. H., Green, P. B., Sequential Scanning Electron Microscopy of a Growing Plant Meristem 77